

PATENT COOPERATION TREATY

PCT

NOTIFICATION OF ELECTION

(PCT Rule 61.2)

From the INTERNATIONAL BUREAU

To:

Assistant Commissioner for Patents
United States Patent and Trademark
Office
Box PCT
Washington, D.C.20231
ETATS-UNIS D'AMERIQUE

in its capacity as elected Office

Date of mailing (day/month/year)

16 May 2000 (16.05.00)

International application No.

PCT/GB99/02090

Applicant's or agent's file reference

SJA50727/001

International filing date (day/month/year)

01 July 1999 (01.07.99)

Priority date (day/month/year)

03 July 1998 (03.07.98)

Applicant

HOWSE, Philip, Edwin et al

1. The designated Office is hereby notified of its election made:

☒ in the demand filed with the International Preliminary Examining Authority on:

25 January 2000 (25.01.00)

☐ in a notice effecting later election filed with the International Bureau on:

2. The election ☒ was

☐ was not

made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

The International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland

Facsimile No.: (41-22) 740.14.35

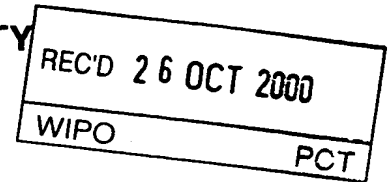
Authorized officer

Juan Cruz

Telephone No.: (41-22) 338.83.38

PATENT COOPERATION TREATY

PCT



INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference SJA50727/001	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/GB99/02090	International filing date (day/month/year) 01/07/1999	Priority date (day/month/year) 03/07/1998
International Patent Classification (IPC) or national classification and IPC A01N59/00		
Applicant UNIVERSITY OF SOUTHAMPTON et al.		

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.


2. This REPORT consists of a total of 4 sheets, including this cover sheet.

- ☒ This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of 4 sheets.

3. This report contains indications relating to the following items:

- I ☒ Basis of the report
- II ☐ Priority
- III ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- IV ☐ Lack of unity of invention
- V ☒ Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI ☐ Certain documents cited
- VII ☒ Certain defects in the international application
- VIII ☐ Certain observations on the international application

Date of submission of the demand 25/01/2000	Date of completion of this report 24.10.2000
Name and mailing address of the international preliminary examining authority:  European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465	Authorized officer Klaver, J Telephone No. +49 89 2399 8601 <div> </div>

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/GB99/02090

I. Basis of the report

1. This report has been drawn on the basis of (*substitute sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to the report since they do not contain amendments.*):

Description, pages:

1-13 as originally filed

Claims, No.:

1-28 as received on 11/09/2000 with letter of 08/09/2000

Drawings, sheets:

1/3-3/3 as originally filed

2. The amendments have resulted in the cancellation of:

- ☐ the description, pages:
- ☐ the claims, Nos.:
- ☐ the drawings, sheets:

3. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)):

4. Additional observations, if necessary:

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/GB99/02090

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Yes:	Claims	1 - 28
	No:	Claims	
Inventive step (IS)	Yes:	Claims	1 - 28
	No:	Claims	
Industrial applicability (IA)	Yes:	Claims	1 - 28
	No:	Claims	

2. Citations and explanations

see separate sheet

VII. Certain defects in the international application

The following defects in the form or contents of the international application have been noted:

see separate sheet

1). A method of trapping and/or killing pests by exposing the pests to a particulate composition comprising magnetic particles in combination with one or more pesticides or behaviour modifying chemicals as defined by present claim 1 has not been disclosed in the available prior art as defined by the documents cited in the International Search Report.

US 5,162,014 (=D6) discloses a method of killing mites in beehives by the use of magnetic particles incorporated into a magnetic binder, but no further active ingredients are present in these compositions.

The method of claim 1 hence is clearly distinguished from that of D6.

Pesticidal compositions comprising a magnetic or magnetised inert core having an active ingredient impregnated thereon or associated therewith (claims 15 and 16) or comprising magnetic particles in admixture with or coated with an active ingredient (claim 17) have not been disclosed either.

Insect traps comprising a magnetically polarized material coated with magnetic particles as defined by claim 23 have not been disclosed in the available prior art either.

The subject-matter of claims 1 - 28 hence is novel within the meaning of Art. 33 (2) PCT.

2). The claimed methods and compositions differ from the methods and compositions from those of the closest prior art (US 5,771,628 (D1) and WO 94/00980 (D3)) in the use of a magnetic particle instead of an electrically charged or chargeable particle that is adhered to the surface of an insect trap. The ferromagnetic particles surprisingly also adhere to the cuticles of the insects and, moreover, remain attached to the trap surface under bad weather conditions (wind) or other situations that may shake or jolt the trap. Such advantages have not been disclosed or suggested in the prior art.

The subject-matter of claims 1 - 28 hence is considered to be based on an inventive step (Art. 33 (3) PCT).

3). The description has not been brought into conformity with the amended claims as required by Rule 5.1(a)(iii) PCT.

Contrary to the requirements of Rule 5.1(a)(ii) PCT, the relevant background art disclosed in the document D1 is not mentioned in the description, nor is this document identified therein.

- 14 -

CLAIMS:

1. A method of trapping and/or killing pests, such as insects, wherein at least a part of a pest to be trapped or killed is exposed to a particulate composition comprising particles containing or consisting of at least one magnetic material, in combination with one or more pesticides or behaviour modifying chemicals.

10

2. A method as claimed in claim 1 wherein the particles have an average particle size diameter in the range of from 2 to 100 μ m.

15

3. A method as claimed in claim 1 or claim 2 wherein the magnetic material is a ferromagnetic oxide.

4. A method as claimed in any one of the preceding claims wherein the particles are applied to a surface in an area in which pests are present, preferably a surface which is inclined to the horizontal.

20

5. A method as claimed in any one of the preceding claims wherein the composition comprises at least 10% by weight of magnetic particles.

6. A method as claimed in any one of the preceding claims wherein the pesticide or behaviour modifying chemical is admixed with the particles of the magnetic material.

7. A method as claimed in any one of claims 1 to 5 where the pesticide or behaviour modifying chemical is coated onto the particles of the magnetic material.

25

- 15 -

8. A method as claimed in any one of claims 1 to 5 wherein the particles are composite particles which comprise a core of an inert substrate which is impregnated with and/or coated with the magnetic material.

9. A method as claimed in claim 8 wherein the core comprises silicon dioxide, magnesium silicate, diatomaceous earth, cellulose or a natural or synthetic polymer.

10. A method as claimed in claim 8 or claim 9 wherein the inert substrate has a pesticide or behaviour modifying chemical impregnated thereon or associated therewith.

11. A method as claimed in claim 10 wherein the pesticide is an insecticide, fungicide, acaricide, insect growth regulator or chemosterilant.

12. A method as claimed in any one of claims 1 to 10 wherein the pesticide is a bacterium, virus or fungus.

13. A method as claimed in any one of claims 1 to 10 wherein the behaviour modifying chemical is a pheromone.

14. A method as claimed in any one of claims 6, 7 or 10 to 13 wherein the pesticide or behaviour modifying chemical comprises at least 0.1% by weight of the cores of the particles.

15. A pesticidal composition in particulate form which comprises composite particles each comprising a core of an inert substance having a pesticide or behaviour modifying chemical impregnated thereon or

- 16 -

associated therewith and the core being impregnated or coated with a magnetic material.

5 16. A pesticide composition as claimed in claim 15 wherein the core comprises silicon dioxide, magnesium silicate, diatomaceous earth, cellulose or a natural or synthetic polymer.

10 17. A pesticidal composition in particulate form which comprises particles containing or consisting of a magnetic material in admixture with a pesticide or behaviour modifying chemical or particles of a magnetic material coated with a pesticide or behaviour modifying chemical.

15 18. A pesticide composition as claimed in any one of claims 15 to 17 wherein the pesticide is an insecticide, fungicide, acaricide, insect growth regulator or chemosterilant.

20 19. A pesticide composition as claimed in any one of claims 15 to 17 wherein the pesticide is a bacterium, virus or fungus.

25 20. A pesticide composition as claimed in any one of claims 15 to 17 wherein the behaviour modifying chemical is a pheromone.

30 21. A pesticide composition as claimed in any one of claims 15 to 20 wherein the pesticide or behaviour modifying chemical comprises at least 0.1% by weight of the cores of the particles.

35 22. A pesticide composition as claimed in any one of claims 15 to 21 wherein the magnetic material is a ferromagnetic oxide.

- 17 -

23. An insect trap which comprises a housing, a zone of the housing or a zone within the housing comprising a magnetically polarized material and the said zone being coated with a composition comprising particles containing or consisting of a magnetic material of opposite polarity to that of the magnetically polarized material.

24. An insect trap as claimed in claim 23 wherein the zone of the magnetically polarized material is formed by a portion of at least one wall of the housing.

25. An insect trap as claimed in claim 23 or claim 24 wherein the zone of the magnetically polarized material comprises a removable insert placed within the housing.

26. An insect trap as claimed in claim 23 or claim 24 wherein the zone has a surface which is inclined to the horizontal.

27. An insect trap as claimed in any one of claims 23 to 26 wherein the magnetic material is a ferromagnetic oxide.

28. An insect trap as claimed in any one of claims 23 to 27 wherein the said zone is coated with particles of a pesticidal composition as claimed in any one of claims 13 to 20.

CLAIMS:

1. A method of controlling pests, such as insects, by trapping and/or killing them wherein at least a part of a pest to be trapped or killed is exposed a composition comprising particles containing or consisting of at least one magnetic material.

2. A method as claimed in claim 1 wherein the particles have an average particle size diameter in the range of from 2 to 100 μ m.

3. A method as claimed in claim 1 or claim 2 wherein the magnetic material is a ferromagnetic oxide.

4. A method as claimed in any one of the preceding claims wherein the particles are applied to a surface in an area in which pests are present, preferably a surface which is inclined to the horizontal.

5. A method as claimed in any one of the preceding claims wherein the composition comprised at least 10% by weight of magnetic particles.

6. A method as claimed in any one of the preceding claims wherein the particles are composite particles which comprise a core of an inert substrate which is impregnated with and/or coated with the magnetic material.

- 15 -

7. A method as claimed in claim 6 wherein the core comprises silicon dioxide, magnesium silicate, diatomaceous earth, cellulose or a natural or synthetic polymer.

5

8. A method as claimed in claim 6 or claim 7 wherein the inert substrate has a pesticide or behaviour modifying chemical impregnated thereon or associated therewith.

10

9. A method as claimed in claim 8 wherein the pesticide is an insecticide, fungicide, acaricide, insect growth regulator or chemosterilant.

15

10. A method as claimed in any one of claims 1 to 8 wherein the pesticide is a bacterium, virus or fungus.

20

11. A method as claimed in any one of claims 1 to 8 wherein the behaviour modifying chemical is a pheromone.

25

12. A method as claimed in any one of claims 7 to 11 wherein the pesticide or behaviour modifying chemical comprises at least 0.1% by weight of the cores of the particles.

30

13. A pesticidal composition in particulate form which comprises composite particles each comprising a core of an inert substance having a pesticide or behaviour modifying chemical impregnated thereon or associated therewith and the core being impregnated or

- 16 -

coated with a magnetic material.

14. A pesticide composition as claimed in claim
13 wherein the core comprises silicon dioxide,
5 magnesium silicate, diatomaceous earth, cellulose or a
natural or synthetic polymer.

15. A pesticidal composition in particulate form
which comprises particles containing or consisting of
10 a magnetic material in admixture with a pesticide or
behaviour modifying chemical or particles of a
magnetic material coated with a pesticide or behaviour
modifying chemical.

16. A pesticide composition as claimed in any
one of claims 13 to 15 wherein the pesticide is an
insecticide, fungicide, acaricide, insect growth
regulator or chemosterilant.

17. A pesticide composition as claimed in any
one of claims 13 to 15 wherein the pesticide is a
bacterium, virus or fungus.

18. A pesticide composition as claimed in any
25 one of claims 13 to 15 wherein the behaviour modifying
chemical is a pheromone.

19. A pesticide composition as claimed in any
one of claims 13 to 18 wherein the pesticide or
30 behaviour modifying chemical comprises at least 0.1%
by weight of the cores of the particles.

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20. A pesticide composition as claimed in any one of claims 13 to 19 wherein the magnetic material is a ferromagnetic oxide.

5 21. An insect trap which comprises a housing, a zone of the housing or a zone within the housing comprising a magnetically polarized material and the said zone being coated with a composition comprising particles containing or consisting of a magnetic
10 material of opposite polarity to that of the magnetically polarized material.

 22. An insect trap as claimed in claim 21 wherein the zone of the magnetically polarized
15 material is formed by a portion of at least one wall of the housing.

 23. An insect trap as claimed in claim 21 or claim 22 wherein the zone of the magnetically
20 polarized material comprises a removable insert placed within the housing.

 24. An insect trap as claimed in claim 21 or claim 22 wherein the zone has a surface which is
25 inclined to the horizontal.

 25. An insect trap as claimed in any one of claims 21 to 24 wherein the magnetic material is a ferromagnetic oxide.

30

 26. An insect trap as claimed in any one of claims 21 to 25 wherein the said zone is coated with

- 18 -

particles of a pesticidal composition as claimed in
any one of claims 13 to 20.

27. A method as claimed in claim 1 substantially
5 as hereinbefore described with reference to any one of
the Examples.

28. An insect trap as claimed in claim 21
substantially as hereinbefore described with reference
10 to and as illustrated in Figures 1A, 1B and 1C of the
accompanying drawings.

PATENT COOPERATION TREATY

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INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference SJA50727/001	FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT/GB 99/ 02090	International filing date (day/month/year) 01/07/1999	(Earliest) Priority Date (day/month/year) 03/07/1998
Applicant UNIVERSITY OF SOUTHAMPTON et al.		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 3 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing:

☐ contained in the international application in written form.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☐ Certain claims were found unsearchable (See Box I).

3. ☐ Unity of invention is lacking (see Box II).

4. With regard to the title,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the abstract,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the drawings to be published with the abstract is Figure No.

☐ as suggested by the applicant.

☐ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

☒ None of the figures.

INTERNATIONAL SEARCH REPORT

International Application No.

PCT/GB 99/02090

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A01N59/00 A01N59/16 A01N25/12 A01M1/10 A01M5/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A01N A01M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5 771 628 A (NOBBS JEFFREY MULFORD) 30 June 1998 (1998-06-30) column 5, line 38-55	1-28
Y	WO 97 33472 A (UNIV SOUTHAMPTON ;HOWSE PHILIP EDWIN (GB)) 18 September 1997 (1997-09-18) page 3, line 4-25; examples 1-3	1-28
Y	WO 94 00980 A (UNIV SOUTHAMPTON ;HOWSE PHILIP EDWIN (GB)) 20 January 1994 (1994-01-20) cited in the application page 8, line 34 -page 9, line 5	1-28
Y	US 4 263 740 A (HEMSARTH W LANCE H ET AL) 28 April 1981 (1981-04-28) column 2, line 58 -column 3, line 20	1-28
	-/-	

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

20 October 1999

Date of mailing of the international search report

29/10/1999

Name and mailing address of the ISA

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NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3018

Authorized officer

Klaver, J

INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB 99/02090

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2 167 978 A (JENNERICH) 1 August 1939 (1939-08-01) col. 2, line 35-41; col. 3, line 41 - 52.	1-28
X	US 5 162 014 A (MOORE LAWRENCE W ET AL) 10 November 1992 (1992-11-10) column 2, line 40-46	1-5
A	DATABASE WPI Section Ch, Week 199718 Derwent Publications Ltd., London, GB; Class C04, AN 1997-196008 XP002119588 & JP 08 290990 A (HITACHI METALS LTD), 5 November 1996 (1996-11-05) abstract	1-28

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/GB 99/02090

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5771628	A	30-06-1998	NONE	
WO 9733472	A	18-09-1997	AU 1933797 A CA 2242781 A CN 1213270 A EP 0888048 A	01-10-1997 18-09-1997 07-04-1999 07-01-1999
WO 9400980	A	20-01-1994	AT 177591 T AU 669727 B AU 4575693 A BR 9306723 A CA 2140015 A DE 69324012 D EP 0650322 A ES 2131586 T GB 2268676 A JP 7508882 T NZ 254181 A NZ 299817 A	15-04-1999 20-06-1996 31-01-1994 08-12-1998 20-01-1994 22-04-1999 03-05-1995 01-08-1999 19-01-1994 05-10-1995 27-05-1998 27-04-1998
US 4263740	A	28-04-1981	NONE	
US 2167978	A	01-08-1939	NONE	
US 5162014	A	10-11-1992	NONE	
JP 8290990	A	05-11-1996	NONE	

INTERNATIONAL SEARCH REPORT

Int'l Application No

PLI/GB 99/02090

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A01N59/00 A01N59/16 A01N25/12 A01M1/10 A01M5/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A01N A01M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5 771 628 A (NOBBS JEFFREY MULFORD) 30 June 1998 (1998-06-30) column 5, line 38-55 ---	1-28
Y	WO 97 33472 A (UNIV SOUTHAMPTON ;HOWSE PHILIP EDWIN (GB)) 18 September 1997 (1997-09-18) page 3, line 4-25; examples 1-3 ---	1-28
Y	WO 94 00980 A (UNIV SOUTHAMPTON ;HOWSE PHILIP EDWIN (GB)) 20 January 1994 (1994-01-20) cited in the application page 8, line 34 -page 9, line 5 ---	1-28
Y	US 4 263 740 A (HEMSARTH W LANCE H ET AL) 28 April 1981 (1981-04-28) column 2, line 58 -column 3, line 20 --- -/--	1-28

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"Z" document member of the same patent family

Date of the actual completion of the international search

20 October 1999

Date of mailing of the international search report

29/10/1999

Name and mailing address of the ISA

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Fax: (+31-70) 340-3016

Authorized officer

Klaver, J

INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB 99/02090

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2 167 978 A (JENNERICH) 1 August 1939 (1939-08-01) col. 2, line 35-41; col. 3, line 41 - 52. ----	1-28
X	US 5 162 014 A (MOORE LAWRENCE W ET AL) 10 November 1992 (1992-11-10) column 2, line 40-46 ----	1-5
A	DATABASE WPI Section Ch, Week 199718 Derwent Publications Ltd., London, GB; Class C04, AN 1997-196008 XP002119588 & JP 08 290990 A (HITACHI METALS LTD), 5 November 1996 (1996-11-05) abstract -----	1-28

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/GB 99/02090

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5771628	A	30-06-1998	NONE	
WO 9733472	A	18-09-1997	AU 1933797 A CA 2242781 A CN 1213270 A EP 0888048 A	01-10-1997 18-09-1997 07-04-1999 07-01-1999
WO 9400980	A	20-01-1994	AT 177591 T AU 669727 B AU 4575693 A BR 9306723 A CA 2140015 A DE 69324012 D EP 0650322 A ES 2131586 T GB 2268676 A JP 7508882 T NZ 254181 A NZ 299817 A	15-04-1999 20-06-1996 31-01-1994 08-12-1998 20-01-1994 22-04-1999 03-05-1995 01-08-1999 19-01-1994 05-10-1995 27-05-1998 27-04-1998
US 4263740	A	28-04-1981	NONE	
US 2167978	A	01-08-1939	NONE	
US 5162014	A	10-11-1992	NONE	
JP 8290990	A	05-11-1996	NONE	

PATENT COOPERATION TREATY

PCT

From the INTERNATIONAL BUREAU

NOTIFICATION OF THE RECORDING
OF A CHANGE

(PCT Rule 92bis.1 and
Administrative Instructions, Section 422)

To:

ALLARD, Susan, Joyce
Boulton Wade Tennant
Verulam Gardens
70 Gray's Inn Road
London WC1X 8BT
ROYAUME-UNI

Date of mailing (day/month/year)
18 April 2000 (18.04.00)

Applicant's or agent's file reference
SJA50727/001

IMPORTANT NOTIFICATION

International application No.
PCT/GB99/02090

International filing date (day/month/year)
01 July 1999 (01.07.99)

1. The following indications appeared on record concerning:

☐ the applicant ☐ the inventor ☒ the agent ☐ the common representative

Name and Address

ALLARD, Susan, Joyce
Boulton Wade Tennant
27 Furnival Street
London EC4A 1PQ
United Kingdom

State of Nationality

State of Residence

Telephone No.

0171-430 7500

Facsimile No.

0171-831 1768

Teleprinter No.

2. The International Bureau hereby notifies the applicant that the following change has been recorded concerning:

☐ the person ☐ the name ☒ the address ☐ the nationality ☐ the residence

Name and Address

ALLARD, Susan, Joyce
Boulton Wade Tennant
Verulam Gardens
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London WC1X 8BT
United Kingdom

State of Nationality

State of Residence

Telephone No.

+44 20 7430 7500

Facsimile No.

+44 20 7831 1768

Teleprinter No.

3. Further observations, if necessary:

4. A copy of this notification has been sent to:

☒ the receiving Office ☒ the designated Offices concerned
☐ the International Searching Authority ☐ the elected Offices concerned
☐ the International Preliminary Examining Authority ☐ other:

The International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland

Authorized officer

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(21) International Application Number: PCT/GB99/02090 (22) International Filing Date: 1 July 1999 (01.07.99) (30) Priority Data: 9814507.1 3 July 1998 (03.07.98) GB (71) Applicant (for all designated States except US): UNIVERSITY OF SOUTHAMPTON [GB/GB]; Highfield, Southampton SO17 1BJ (GB). (72) Inventors; and (75) Inventors/Applicants (for US only): HOWSE, Philip, Edwin [GB/GB]; 14 Western Way, Alverstoke, Gosport PO12 2NG (GB). ASHBY, Roger, Edward [GB/GB]; 66 High Street, Sidford, Devon EX10 9SQ (GB). (74) Agent: ALLARD, Susan, Joyce; Boulton Wade Tennant, 27 Fumival Street, London EC4A 1PQ (GB).			(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i>
(54) Title: A METHOD AND APPARATUS FOR CONTROLLING PESTS			
(57) Abstract A method of controlling pests, such as insects, by trapping and/or killing them wherein at least a part of a pest to be trapped or killed is exposed a composition comprising particles containing or consisting of at least one magnetic material.			

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INTERNATIONAL SEARCH REPORT

Int'l Application No

PC/GB 99/02090

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A01N59/00 A01N59/16 A01N25/12 A01M1/10 A01M5/02

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B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A01N A01M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

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Y	WO 97 33472 A (UNIV SOUTHAMPTON ;HOWSE PHILIP EDWIN (GB)) 18 September 1997 (1997-09-18) page 3, line 4-25; examples 1-3 ---	1-28
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